

RM10 - RM10Z

PRV : 200 - 800 Volts
Io : 1.2 - 1.5 Amperes

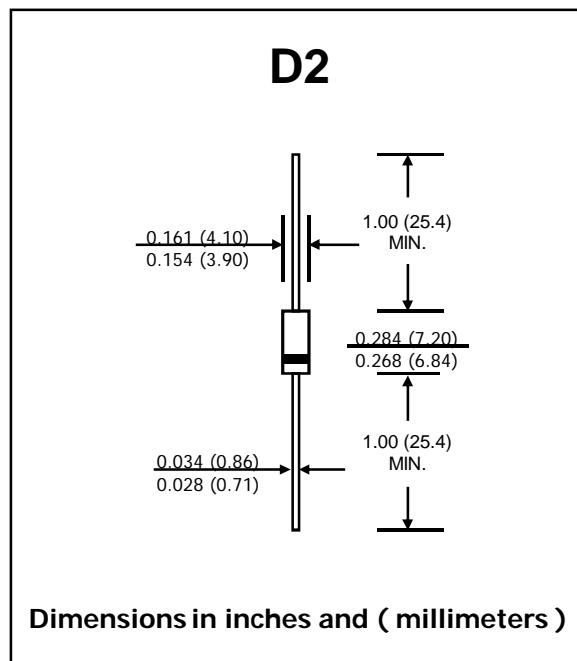
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : D2 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.465 gram

SILICON RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	RM10Z	RM10	RM10A	RM10B	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length $T_a = 70\text{ }^{\circ}\text{C}$	I_F	1.5	1.2			A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	120	150			A
Maximum Forward Voltage at $I_F = 1.5$ Amps.	V_F	0.91				V
Maximum DC Reverse Current $T_a = 25\text{ }^{\circ}\text{C}$ at rated DC Blocking Voltage $T_a = 100\text{ }^{\circ}\text{C}$	I_R	10				μA
	$I_{R(H)}$	50				μA
Typical Junction Capacitance (Note1)	C_J	30				pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	50				$^{\circ}\text{C/W}$
Junction Temperature Range	T_J	- 65 to + 175				$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 175				$^{\circ}\text{C}$

Notes :

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- (2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

RATING AND CHARACTERISTIC CURVES (RM10 - RM10Z)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

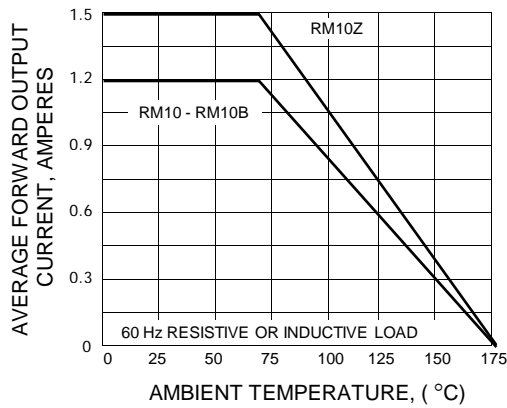


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

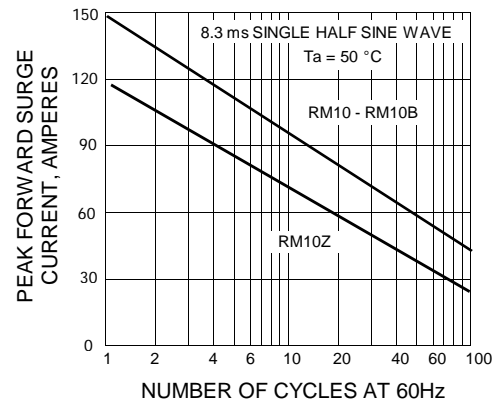


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

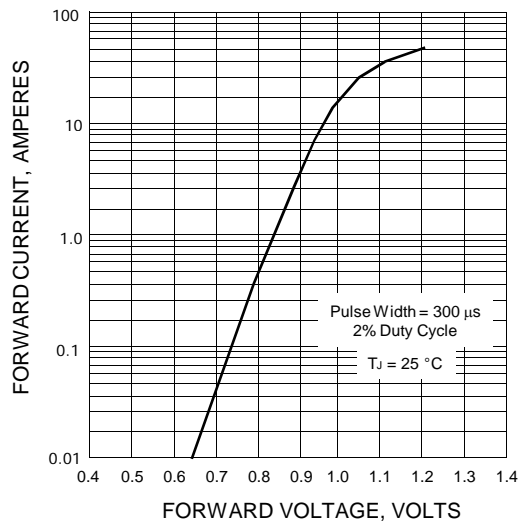


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

